LN Book Series User Manual

This model is recommended to install OS version below Windows7 32bit.

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Overview

About this book

This book provides you the main information about various components in your LN Book and demonstrates how to use them. The following are the major chapters of this book.

Chapter title	Description
Overview	Introduction to this book
Getting started	Information about beginning to use your LN Book
Touring your LN Book	Introduction to the hardware components of your LN BOOK
Using your LN Book	Information about operating your your LN Book
Using BIOS setup	Information about how to use the BIOS setup utility
Recovering your system using QDataTrove	Information about using system backup and restore tools
Replacing the memory	Information about how to replace RAM memory
Appendix	Information safety information

Typographics

The usage of notes, tips, and warnings in this manual is specifically for different purposes, which are described as follows:

Icon/ Symbol	Item	Meaning
	Warning	Information mainly to prevent the damage to components, data, or personal injury caused by misuse and improper operation or behavior.
	Tip	Useful information for completing a task.
	Note	Supplementary information.
< > or [ ]	**Keys on the keyboard; User Interface (UI) on the screen**	Indicates a key on the keyboard, or the UI on the screen. Do not actually type the symbols together with the enclosed letters.

When you first set up your LN Book, you may want to find more information on setups. Refer to the user manual that is supplied with your operating system, or search from Help and Support in the Start menu in Windows XP.

In this book, the steps needed to reach a menu are shown in condensed form, for example: Start > Help and Support.
The Control Panel options mentioned are organized by the default category view.

Getting started

Depending on the model of your LN Book, the appearance may be different from the illustrations shown in this manual.

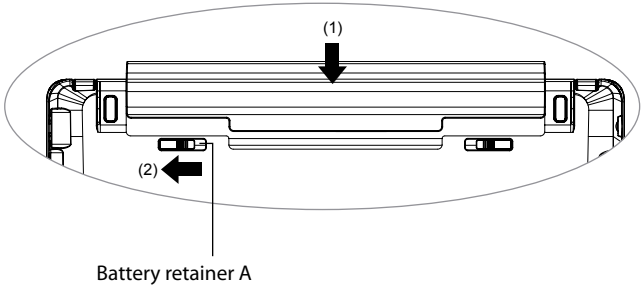
Package contents

Before using your LN Book for the first time, please check if you have all the items with you. For details about what should be included in the package, refer to the Product Specifiction label on the product carton. If any of the items are missing or appear damaged, contact your dealer immediately. Save the packing in case you need to ship your LN Book for service.

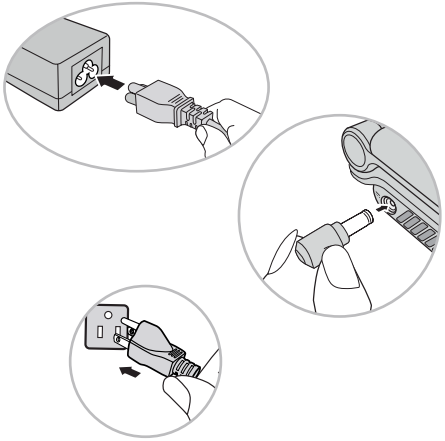
Getting your LN Book ready for use

1. Installing the battery pack

Close the lid of your LN Book (if open). Turn your LN Book upside down and place it on a soft clean cloth. With the label side of the battery pack facing down, slide it gently into the battery compartment until it snaps into place (1). Move "Battery retainer A" to the Left as shown to lock the battery pack into place (2).

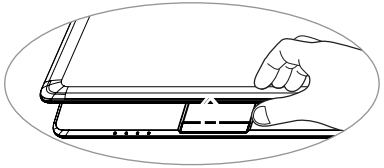


2. Connecting the power



a. Connect the power cord to the power adapter.
b. Connect the power adapter to the power jack on your LN Book.
c. Connect the power cord to a power outlet.
The LN Book will automatically start charging the battery.

3. Opening your LN Book



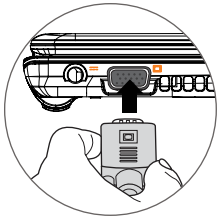
Gently lift up the latch lid that allows you to open the case easily.

4. Performing initial setup

Press the Power button to start up your LN Book, And then follow the on-screen instructions to complete the initial Windows XP setup.

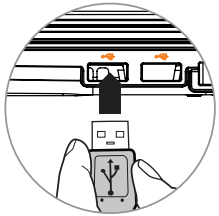
Expanding the capabilities of your LN Book

Pay attention to the plug direction when making the following connections. Incorrect direction may cause damage to the device.



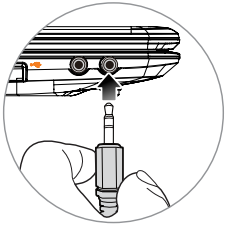
Connect an external display device (such as a monitor or projector) to the 15-pin D-sub video jack of your LN Book with a VGA cable.

To switch to the external display device or simultaneous display, press the <Fn> + <F7> hotkey combination.

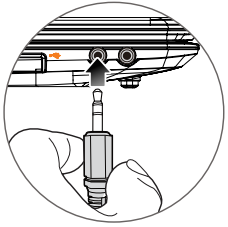


Connect USB peripherals to the USB ports of your LN Book

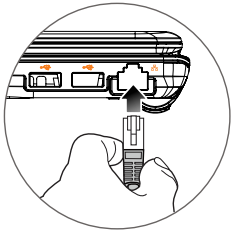
Insert a Memory Stick, Memory Stick Pro, MMC, and SD memory card following the direction indicated on the card to exchange files.



Connect an earphone to the audio output jack to output sounds.

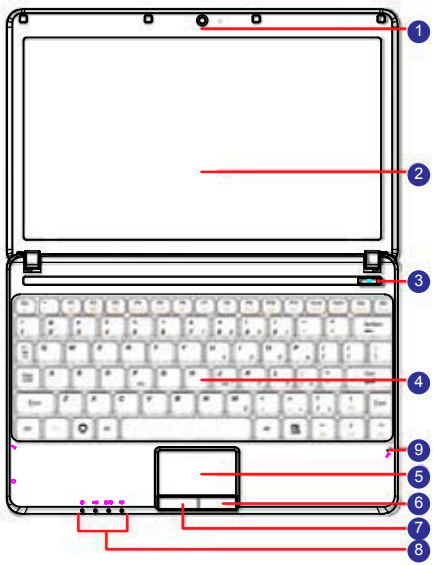


Connect a microphone to the microphone input jack to record sounds.



Access local area network (LAN) by connecting a network cable to the LAN port of your LN Book.

Touring your LN Book
About this book



Front components

(1) Built-in webcam
A built-in 0.3 megapixel webcam that allows you to cap ture still images, record videos, and chat online.

(2) LCD (Liquid Crystal Display) panel

(3) Power button
Turns your LN Book on or off.

(4) Keyboard

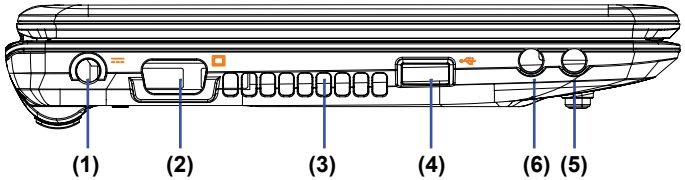
(5) Touchpad
Refer to "Using the touchpad" on page 12 for details.

(6) Right touchpad button

(7) Left touchpad button

(8) Indicators
Refer to "Indicators" on page 11 for details

(9) Built-in microphone
Receives sounds and voices for recording.



Left-side components

(1) DCIN Power jack
Connect AC power supply to power the LN Book and charge the battery.

(2) 15-pin D-sub video jack
Connect external display devices, such as monitors and projectors.

(3)Vents
Dissipate heat and keep your LN Book at an optimal temperature.

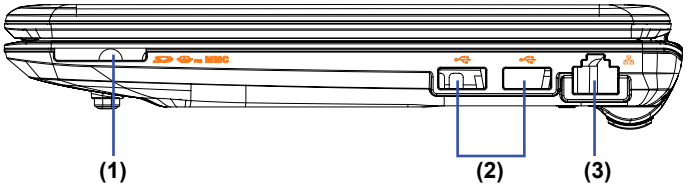
⚠ To prevent overheating, do not obstruct the vents. For example, do not use the LN Book in bed where a blanket may inadvertently cover the vents and block the airflow.

(4) USB port
Connect peripherals such as mice, digital cameras and MP3 players that use the USB 2.0 interface.

(5) Audio output jack
Connect to an earphone/headset or external speaker for playing the LN Book audio.

(6) Microphone input jack
Connect to a microphone for recording sounds.

⚠ This jack is for 3.5mm analog audio plugs. It accepts both mono and stereo plugs.



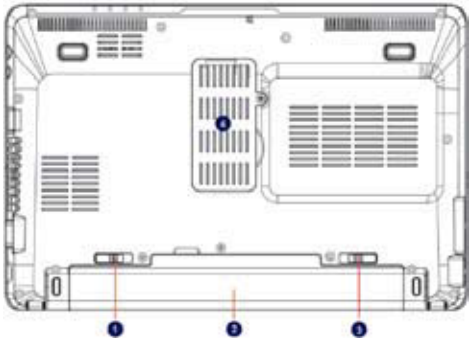
Right-side components

(1) For a Memory Stick, Memory Stick Pro, SD or MMC memory card.

(2) USB port
Connects peripherals such as mice, digital cameras and MP3 players that use the USB 2.0 interface.

(3) LAN (Local Area Network) port (RJ-45 connector)
Allows the LN Book to connect to a 10/100Mbps fast Ethernet 100BASE-T network.
Please be careful to avoid plugging a RJ-11 phone cable con nector in the RJ-45 port. This will damage the LAN port. They look similar, but the RJ-45 connector is wider than the RJ-11 connector, and has more conductors.

Bottom view

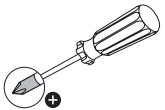


Bottom components

(1) Battery pack
Supplies power to the LN Book when external power is not connected.

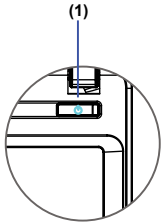
(4) Memory expansion slot cover
Inside the cover, you can find the memory slot of the oLio Book . You can replace the existing memory module of your LN Book from here.

• To remove the cover, a small Phillips head screwdriver is required.

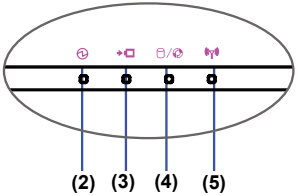


• For more information about replacing the memory module, the limit of maximum memory, or the types of certified memory modules for your LN Book.

Indicators



(1) Power button



Bottom components

(2) System status indicator
- When the system is on, it lights up in green.
- When the system is in Sleep mode, it blinks up in green.
- When the system is off or Hibernation, the light goes off.

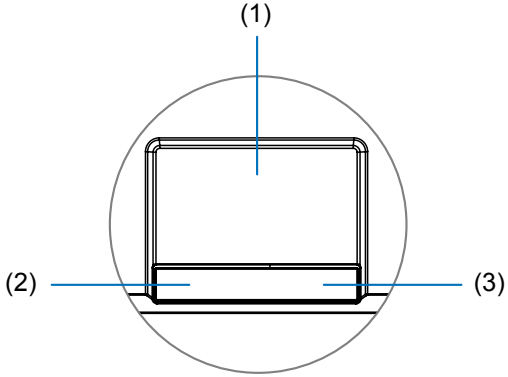
(3) Battery indicator
- When the battery is charging, it blinks up in orange.
- When the battery is fully charged, it lights up in orange.
- When the battery is in use, it lights up in green.
- When the battery is running low, it blinks in green.

(4) Hard disk/CD-ROM activity indicator
Flashes in green when the LN Book is accessing data in the hard disk or/and externat CD-ROM.

(5) Wireless LAN (WLAN)/Bluetooth indicator
- When WLAN or Bluetooth is tuned on it lights up in green.
- When both WLAN and Bluetooth are turned off, the light goes off.

Using your LN Book

Using the touchpad



The touchpad with its buttons is a pointing device that functions as an optional external mouse, which can perform navigation, scrolling and selection functions. The components of the touchpad are described as follows.

No.	Component	Function
(1)	Touchpad	Moves the pointer, selects or activates items on the screen.
(2)	Left touchpad button	Equivalent to the left button of an optional external mouse.
(3)	Right touchpad button	Equivalent to the right button of an optional external mouse.

- To use the touchpad as an optional external mouse, press the left and right touchpad buttons, which provide the same click functions as an external mouse does.
- To move the pointer, place your finger with slight pressure on the touchpad and move in the direction as desired.

- Do not use a pen, pencil, or marker on the touchpad. Use only your fingertip.
- To set the touchpad preferences in Windows XP, select Start > Control Panel > Printers and Other Hardware > Mouse

Function	Left touchpad button	Right touchpad button	Touchpad
Select	Click once.	--	Tap once.
Execute	Click twice quickly.	--	Tap twice quickly.
Drag	Click once and hold the item, and then use your finger on the touchpad to drag.	--	Tap twice quickly and hold the item, and then move your finger on the touchpad to drag.
Display the contextual menu	--	Click once.	--

- The touchpad is a pressure sensitive device that requires proper care to avoid damage.
- Do not rest heavy objects on the touchpad or its buttons.
- Do not scratch the touchpad with sharp-pointed objects or your fingernails.

Function hotkey	Description	Function hotkey	Description
<Fn> + <F1>	Activates or deactivates the touchpad.	<Fn> + <F8>	Decreases screen brightness.
<Fn> + <F2>	Turn on/off internal LCD display.	<Fn> + <F9>	Increases screen brightness.
<Fn> + <F3>	Turn on/off Mute volume.	<Fn> + <F11>	Switches between 3G, WLAN and Bluetooth on/off. The status is indicated by the on-screen display. 3G, WLAN and Bluetooth are available on select models.
<Fn> + <F4>	Sleep button Make the system entering sleep mode. (Defined by operation system setting.)	<Fn> + <`>	Play/Pause the playback of Windows Media Player.
<Fn> + <F5>	Decrease volume.	<Fn> + <Ins>	Activates or deactivates the numeric keypad (indicated by the light gray shade in the illustration on the previous page).
<Fn> + <F6>	Increase volume.		
<Fn> + <F7>	Switches display between internal LCD and an external display device (such as a monitor or projector), or allows simultaneous display. Make sure an external display device (such as a monitor or projector) has been connected to your Netbook properly before using this hotkey combination.	<Fn> + <Del>	Activates or deactivates the scroll lock function. When activated, the screen moves one line up or down when you press the up or down arrow key (K, L). Scroll Lock does not work in all programs.

Function hotkey	Description	Function hotkey	Description
	Windows key Provides quick access to the Start menu.	+ <M>	Minimizes all open windows that contain Minimize buttons.
+ <R>	Activates the Run dialog box.	<Shift> + + <M>	Cancels minimization of all windows.
+ <E>	Opens the My Computer Window for browsing disks and - les.		

Function hotkey	Description	Function hotkey	Description
<Alt> + <Tab>	Switches between windows.	Application key	Provides the same function as the right touchpad button, displaying a contex-tual pop-up menu.
<Caps Lock>	Capitalizes all text entered.		

Using built-in wireless connectivity (select models only)

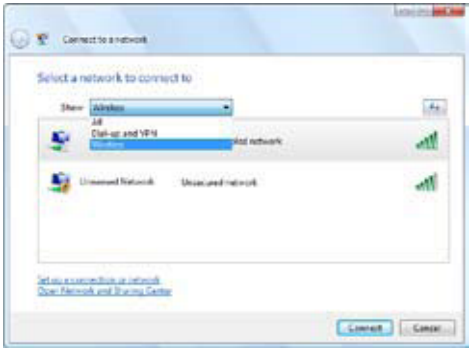
With the built-in wireless connectivity of your LN Book, you can access other wireless network enabled devices (such as AccessPoint network stations, Notebook computers, Personal Digital Assistants, or digital projectors) wirelessly without the constraints of network cables.

To connect with a Local Area Network (LAN) at home or in the office, you need the details of an access point, which serves as an air station to make transmission possible. Outdoors in places such as in coffee shops or library, you can inquire the service personnel about an account.

- Wireless LAN (WLAN) is available on select models.
- WLAN connectivity has limited range, depending upon the equipment being used, the chosen frequency band, radio- wave interference, and the physical landscape (including building structure). Circumstances will vary depending upon your particular situation.

Connecting to a wireless network

1. Make sure you are located within the wireless network service area.
2. To enable WLAN, press the <Fn> + <F11> hotkey combination a few times until the WLAN/Bluetooth indicator lights up.
3. Click on the WLAN icon in the notification area located at the lower right corner of the desktop. A list of available wireless networks will be displayed.



4. Choose a network and then click Connect. If security authentication is not required by the network you are using, there will be a successful message showing that you have connected to the network.

- To connect to some networks that require security authentication, you may have to undergo another authorization process and enter username and password. For details, please consult your network administrator.
- For more information, refer to Start > Help and Support in Windows XP.

- For data security, it is strongly recommended to connect to security-enabled wireless networks whenever possible.
- When travelling by air, please be sure to turn off wireless networking to avoid any possible risks to flight safety.

There is another way for the LN Book to connect with a network. See "LAN (Local Area Network) port (RJ-45 connector)".

Using Bluetooth (available on select models)

The Bluetooth function allows you to get connected to various devices and services that support Bluetooth transmission. You can connect wirelessly without the need for data cables when printing documents, synchronizing your Personal Information Management (PIM) data with your Personal Digital Assistant (PDA) or another Personal Computer (PC), mobile phone or even sharing a network connection.

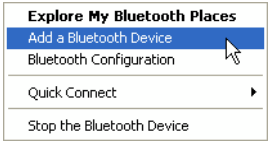
Bluetooth is available on select models.

Connecting to a Bluetooth device

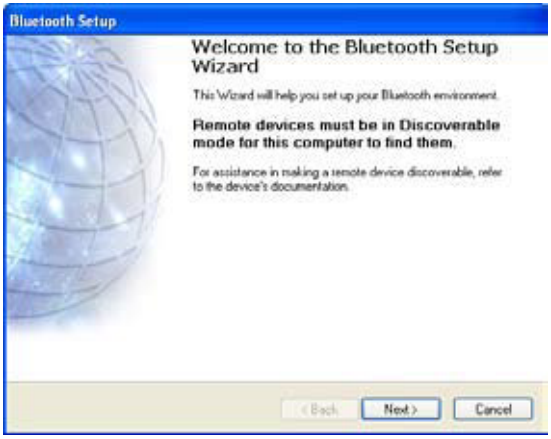
1. Press the <Fn> + <F11> hotkey combination to turn the Bluetooth on. When the Bluetooth is turned on, WLAN/ Bluetooth indicator lights up.
2. Turn on the power of your Bluetooth device and activate its Bluetooth function. You also need to make your Bluetooth device "Discoverable".

- For details about how to activate the device's Bluetooth function, please refer to its documentation.
- The maximum effective range of connection between your LN Book and the Bluetooth device is 10 meters.

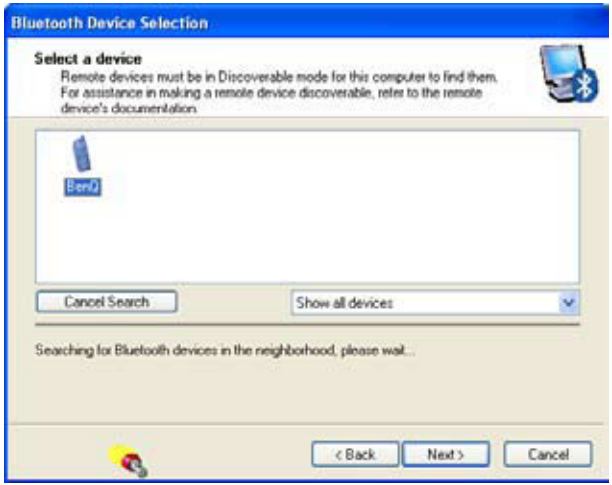
1. Right-click on the Bluetooth icon in the notification area located at the lower right corner of the desktop, and then click Add a Bluetooth Device to launch the wizard.



2. Click Next.


Bluetooth Setup
Welcome to the Bluetooth Setup Wizard
This Wizard will help you set up your Bluetooth environment.
Remote devices must be in Discoverable mode for this computer to find them.
For assistance in making a remote device discoverable, refer to the device's documentation.
< Back
Next >
Cancel

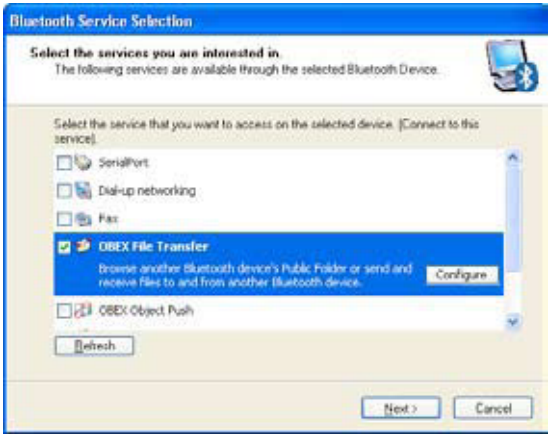
3. Please wait while Windows is searching for available Bluetooth devices. Select the Bluetooth device that you want to add, and then click Next.


Bluetooth Device Selection
Select a device
Remote devices must be in Discoverable mode for this computer to find them. For assistance in making a remote device discoverable, refer to the remote device's documentation.
BenQ
Cancel Search
Show all devices
Searching for Bluetooth devices in the neighborhood, please wait...
< Back
Next >
Cancel

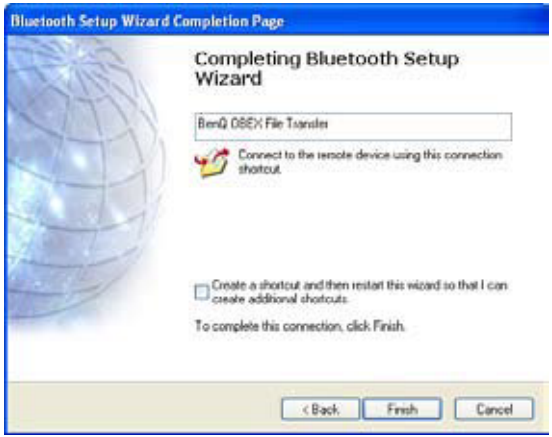
4. Refer to the documentation that came with your Bluetooth device to determine if there is a pre-defined passkey. Or Windows will generate a passkey for you.
If the pairing process is not done within a short time, click Try Again to enter a passkey. And click Next. When you are prompted to enter the passkey on your Bluetooth device, follow the on-screen instructions to enter the passkey.

Bluetooth Security Setup
Bluetooth Pairing
Paired devices exchange a secret key each time they connect. This key is unique for each pair of devices; it is used to verify identity and to encrypt the data that the devices exchange.
Use following PIN Code on XXXX to perform Bluetooth Pairing.
026624
< Back
Next >
Cancel

5. The Bluetooth device is now connected to your LN Book . A list of available services supported by the connected Bluetooth device is displayed. Check the desired services and click Next.


Bluetooth Service Selection
Select the services you are interested in.
The following services are available through the selected Bluetooth Device.
Select the service that you want to access on the selected device. [Connect to this service].
SerialPort
Dial-up networking
Fax
OBEX File Transfer
Browse another Bluetooth device's Public Folder or send and receive files to and from another Bluetooth device.
Configure
OBEX Object Push
Refresh
Next >
Cancel

6. Click Finish to complete the setup.

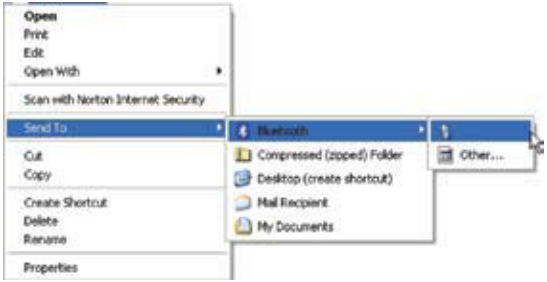

Bluetooth Setup Wizard Completion Page
Completing Bluetooth Setup Wizard
BenQ OBEX File Transfer
Connect to the remote device using this connection shortcut.
Create a shortcut and then restart this wizard so that I can create additional shortcuts.
To complete this connection, click Finish.
< Back
Finish
Cancel

Sending a file to a Bluetooth device

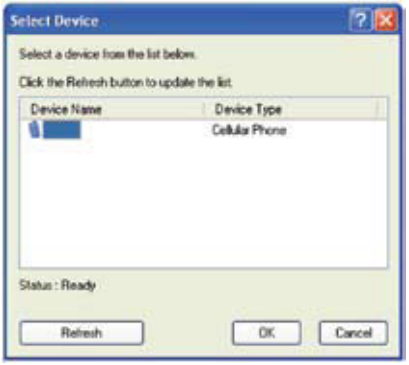
If your Bluetooth device is capable of sending and receiving data, such as a mobile handset, you can use the Bluetooth connectivity to transfer data wirelessly between your Bluetooth device and LN Book.

1. After your LN Book is connected to a Bluetooth device, right-click the Bluetooth icon in the notification area to display the pop-up box, and select Quick Connect > File Transfer, and then the connected Bluetooth device.

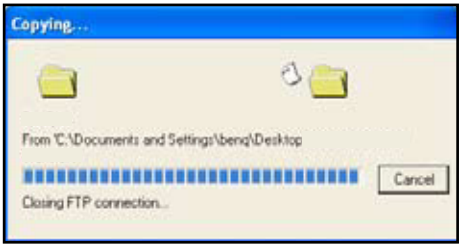
2. Use Windows Explorer to browse the file you want to send. Right-click on the file, and select Send to > Bluetooth, and then the Bluetooth device you want to send the file to.



3. Select the Bluetooth device you want to send the file to, and click OK.



4. Before the transmission starts, you may be requested to enter the passkey again to ensure the connection. After the transmission starts, you can check the on-screen progress bar for the status of file transfer.



The example shown above is specifically for connecting to a mobile handset. To connect to other types of Bluetooth devices, refer to the online Help for details.

6. BIOS Setup Menu

6.1 Invoking setup

The setup function can only be invoked by pressing F2 when Press <F2> to enter Setup message is prompted on the bottom of screen during POST.

The setup uses a menu driven interface to allow the user to configure their system. The features are divided into 6 parts as follows:

Main Allows the user to specify standard IBM PC AT system parameters.

Security Provides security settings of the system.

Boot Allows the user to specify the boot options.

Exit Allows the user to save changes and exit Setup.

During setup, all Fn function keys and power saving functions are disabled.

6.2 Main Menu

The setup function can only be invoked by pressing F2 when Press <F2> to enter Setup message is prompted on the bottom of screen during POST.

The setup uses a menu driven interface to allow the user to configure their system. The features are divided into 6 parts as follows:

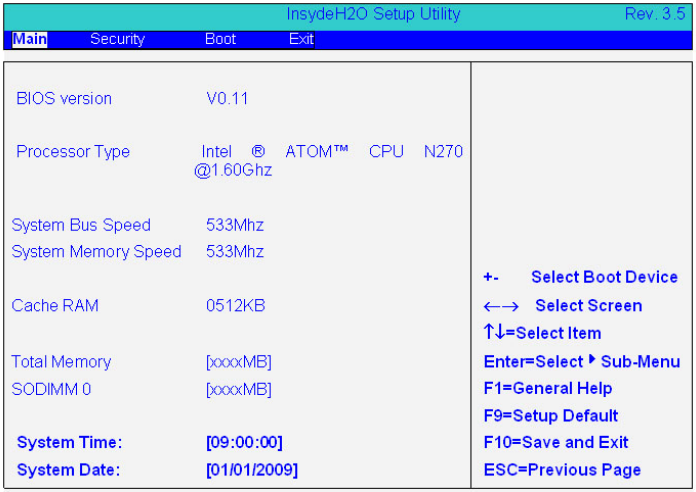
Main Allows the user to specify standard IBM PC AT system parameters.

Security Provides security settings of the system.

Boot Allows the user to specify the boot options.

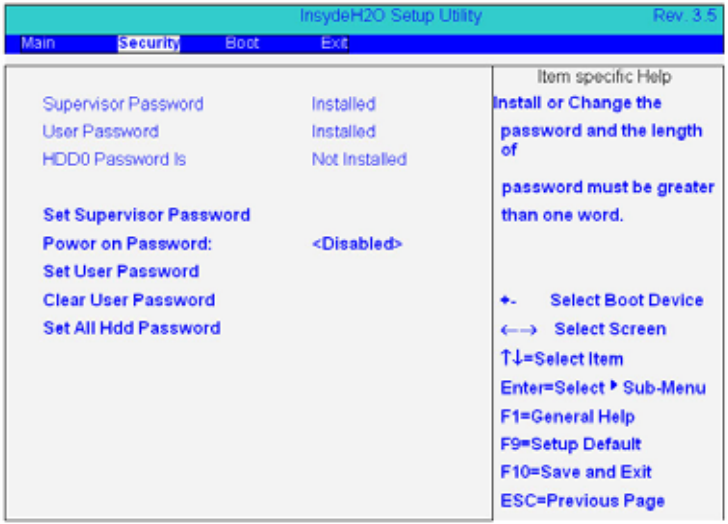
Exit Allows the user to save changes and exit Setup.

During setup, all Fn function keys and power saving functions are disabled.



6.2 Security Menu Default

The following is Security menu if both of password is disabled, or enter Supervisor password when password is enabled:



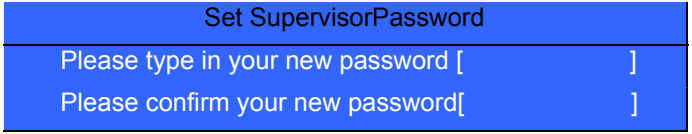
User Password is / Supervisor Password is :

These two fields shows that Supervisor/User Passwords are set or not.

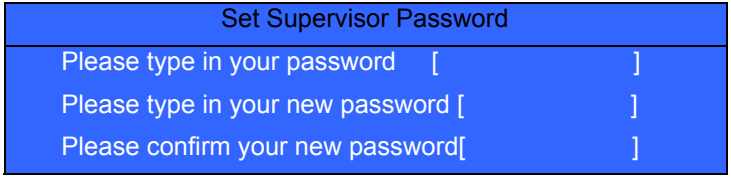
Installed : System Password is set.

Not Installed:System Password is not set.

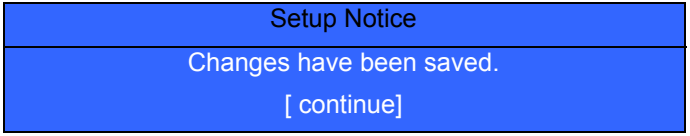
Set User Password / Set Supervisor Password
Enter : This field always shows the message.
While these fields are highlighted and press 'Enter', a window similar to the following is shown:



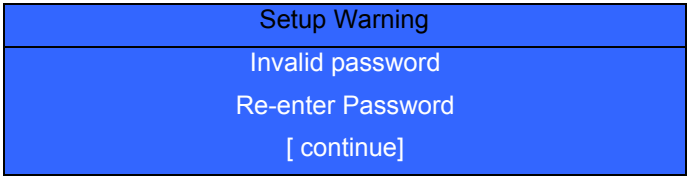
If there is an old password then setup will prompt with the following window instead
and a current password will be required to be entered at first:


Set Supervisor Password
Please type in your password [ ]
Please type in your new password [ ]
Please confirm your new password[ ]

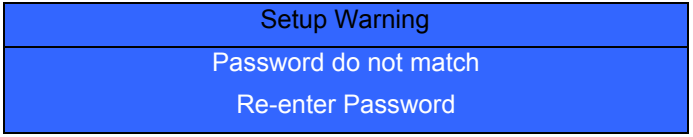
User can now type password in field Enter New Password, and
re-enter password in field Confirm New Password for verification.
If the verification is OK:



The password setting is complete after user presses enter.
If the current password entered does not match the actual current password:



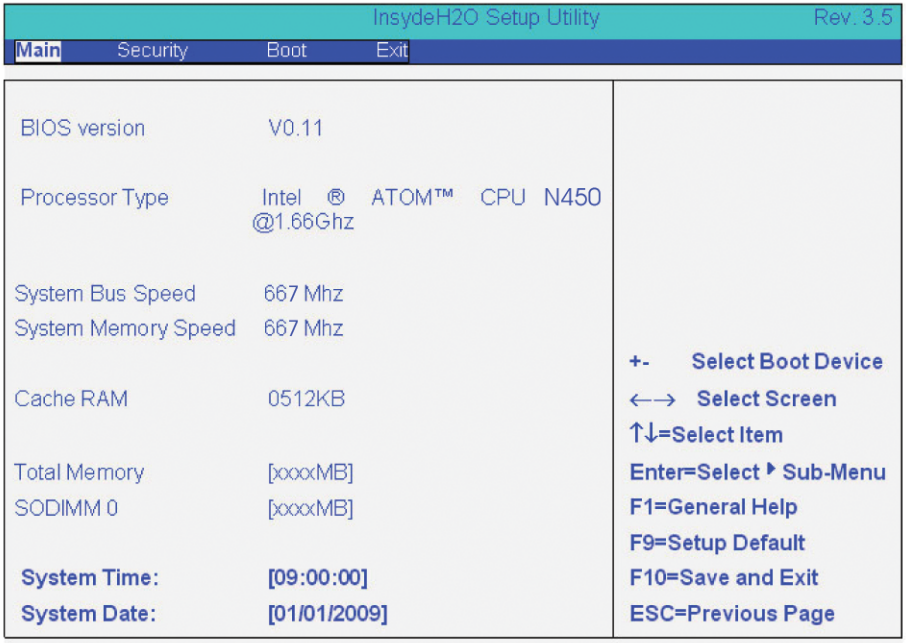
If the new password and confirm new password strings do not match:



Password on Boot:
Defines whether a password is required or not while the events defined in this group happened. The following sub-options are all requires the Supervisor password for changes and should be grayed out if the user password was used to enter setup.
Allows the user to specify whether or not a password is required to boot.
Option : Disabled / Enabled
Clear User Password:
Clear user password

6.3 Boot Menu Default

This menu allows the user to decide the order of boot devices to load the operating system.



Quiet Boot:
Enabled: Customer Logo is displayed, and Summary Screen is disabled
Disabled: Customer Logo is not displayed, and Summary Screen is enabled.
PXE Boot to Lan
Enabled: Support boot from Lan
Disabled: Don't Support boot from Lan.
Boot Device Priority

6.4 Exit Menu

6.5 Multi-Boot Menu

BIOS will provide the user with the ability to select the devices for attempting to boot an OS. The user will be able to specify which system device will be attempted 1st, 2nd, and so on. The list of possible boot devices will include:

* HDD
* CD-ROM/DVD Drive
* Floppy devices
* Network Boot

If a specified device (drive or media) is not currently available in the system or is not in a bootable state, the system will proceed to the next user selection device. If none of the selected devices are present or in a bootable condition then the system will halt and display an error message.

Support USB FDD bootable function and also support Boot Block from USB FDD.

User can press F12 during POST to enter multi-boot menu. In this menu user can change boot device without entering BIOS SETUP Utility.

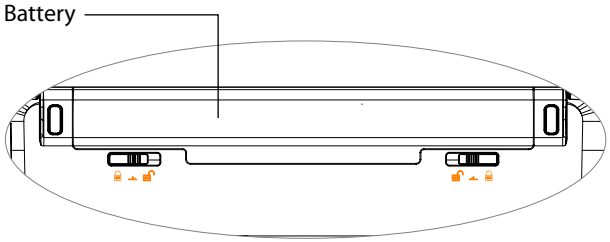
Replacing the memory

You can replace the existing memory module with a high capacity one. Before you upgrade or replace memory, please check on the web site to determine the module which can be used, or contact Linkworld Electronic Co., Ltd. distributor or customer service center.
It is recommended that you take your LN Book to the Linkworld Electronic Co., Ltd.
distributor or customer service center for the upgrade or memory replacement.

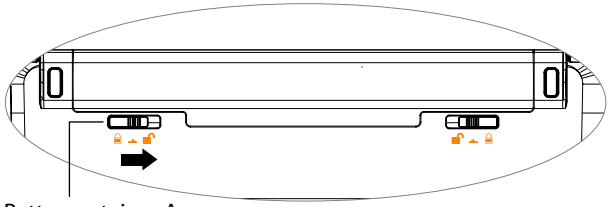
For details about the limit of maximum memory, refer to the product information from http://www.linkworld.com.tw

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

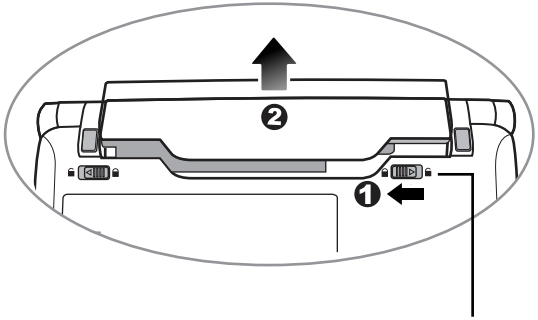
1. Shut down your LN Book completely. Disconnect the power adapter and turn over your LN Book.



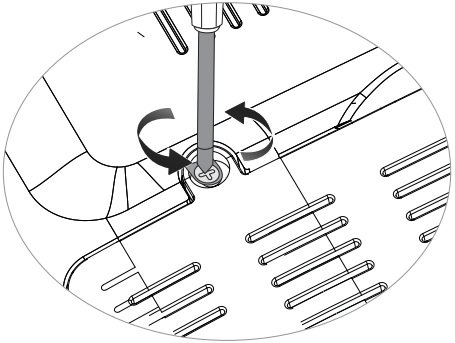
2. Slide "Battery retainer A" to the right to unlock the battery.



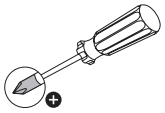
3. Slide "Battery retainer B" to the left (1) and, while still holding the retainer, remove the battery from its compartment (2).



4. The memory cover is secured with 1 screw. Use a screwdriver to remove the screw.



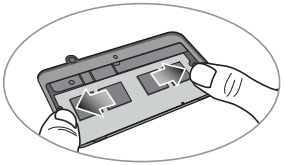
To remove the screw, a Small Phillips head screwdriver is required.



5. Remove the memory cover.

> ⚠ Ground yourself to your LN Book with professional grounding equipment like an anti-static wristband, or touch the metal surface on the inside of your LN Book to discharge any static electricity.

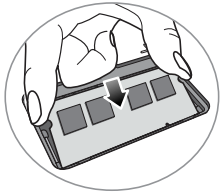
6. Release the existing memory module by pushing aside the memory holders, and remove the memory.



7. Remove the memory.

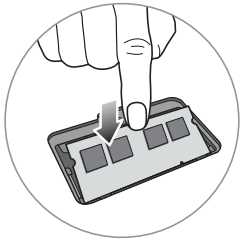
> ⚠ Handle the memory odule by its edge and avoid touching the contacts.

8. Align the new memory module with the slot, and then insert it.
When inserting, pay attention to the direction of the memory module.



9. Gently push the free edge downwards until the module locks into place.

> ☞ If the memory module is not installed properly, your LN Book may not boot properly.



10. Replace the memory cover.

11. Use a screwdriver to secure the cover with the screw.

12. Place the battery on its original position (1), and then slide "Battery retainer A" to the left (2). Connect the power adapter. When you start the LN Book, it will automatically test and configure the new memory.

☞ It is recommended that you go into BIOS to load setup defaults after installing additional memory. For details

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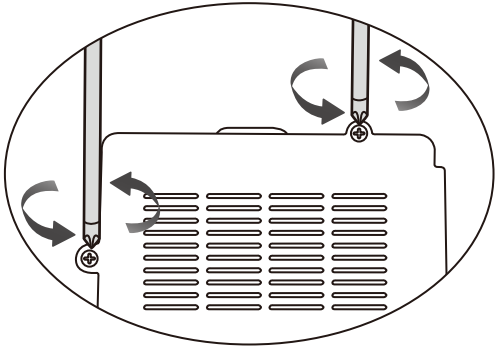
Remove the Storage Device

Before you upgrade or replace the storage device(HDD), You need to remove the existing one. Please follow the steps on the manual as figure.

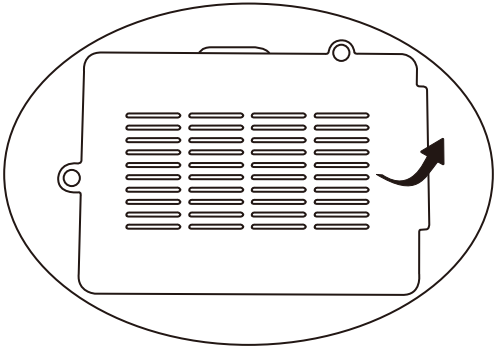
Please check on the web site to determine the module which can be used, or contact Linkworld Electronic Co., Ltd.
distributor or customer service center.

It is recommended that you take your LN Book to th e Linkworld Electronic Co., Ltd.
distributor or customer service center for the upgrade or memory replacement.
For details about the limit of maximum Hard drive, refer to the product information from http://www.linkworld.com.tw

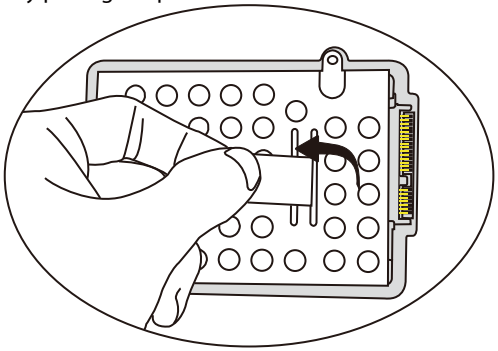
1. To remove the cover, please lease the screws by screwdriver.



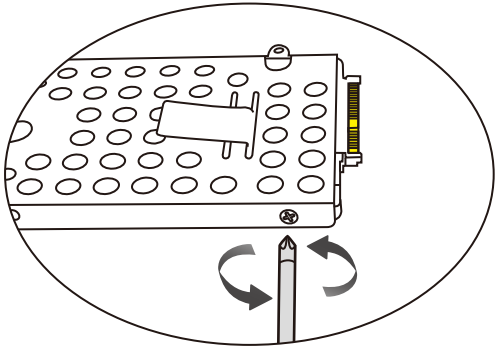
2. Remove the plastic cover to reveal the HDD.



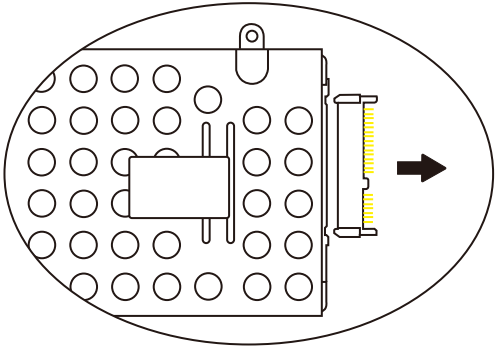
3. Gently disconnect the HDD from connector by pulling strap.



4. lease the 4 screws on the metal bracket.



5. Remove the connector from the HDD as figure shown.

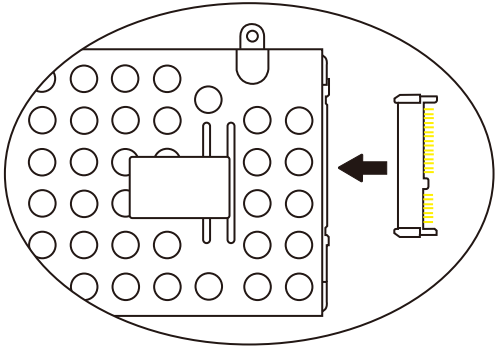


Inatall the Storage Device

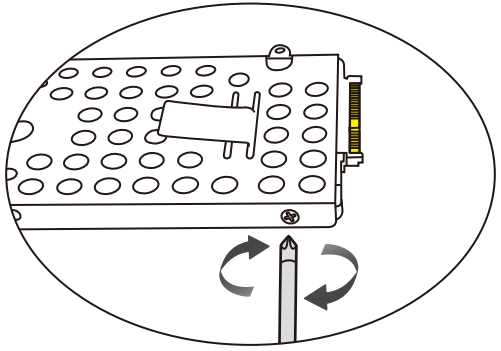
You can replace the existing storage device(HDD) with a high capacity one. Before you upgrade or replace the storage device(HDD), please check on the web site to determine the module which can be used, or contact Linkworld Electronic Co., Ltd. distributor or customer service center.

It is recommended that you take your LN Book to th e Linkworld Electronic Co., Ltd. distributor or customer service center for the upgrade or memory replacement.
For details about the limit of maximum Hard drive, refer to the product information from http://www.linkworld.com.tw

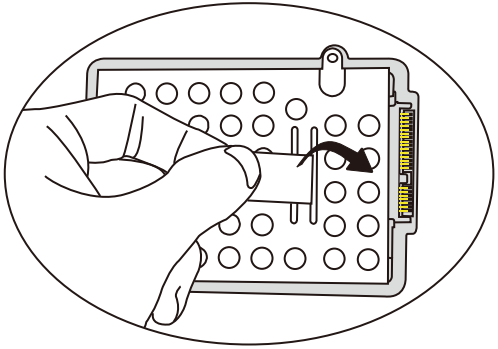
1. Put the connector into the HDD as figure shown.



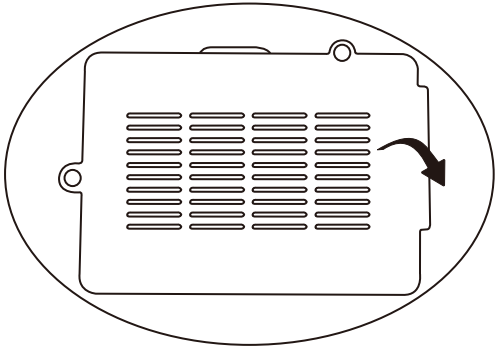
2. Screw the HDD on the metal bracket by 4 screws.



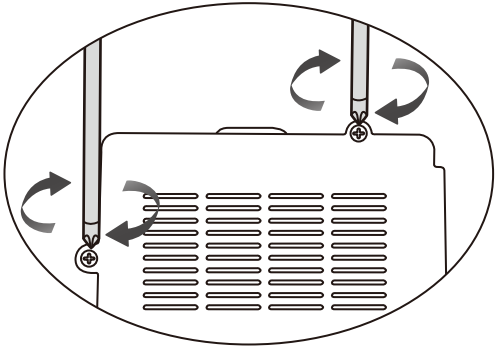
3. Gently connect the HDD to the connector.



4. Cover the HDD using the HDD plastic cover.



5. Screw the HDD plastic cover by 2 screws.



Appendix

Generalsafety information

When setting up or operating your LN Book, please pay special attention to the following:

1. Keep this manual in a safe place for easy reference when needed.
2. Make sure you follow all instructions and warnings related to the system.
3. Place your LN Book on a stable, level surface, and ensure that the vents are not obstructed.
4. Do not expose your LN Book to rain or excess humidity, and keep it away from liquids (such as beverages, faucets, and so on).
5. Do not expose your LN Book to direct sunlight, and keep it away from sources of heat (such as radiators, space heater, stoves, and so on).
6. Do not expose your LN Book to heavy impacts or strong vibrations. When closing the LN Book, do not use excessive force.
7. Do not use your LN Book neat a gas leak.
8. Do not store your LN Book in environments where the temperature is below 0℃ or above 50℃, nor use your LN Book in environments where the temperature is below 5℃ or above 35℃. Otherwise system performance will be adversely affected.
9. Do not use your LN Book near water, for example near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
10. Do not place the LN Book, in the vicinity of strong magnetic fields.
11. Use an appropriate electrical outlet, and make sure no heavy objects are placed on the power adapter or power cord.
12. The power adapter is a high-voltage component. Do not attempt to repair it yourself. Should it become damaged, please contact an authorized Linkworld Electronic Co., Ltd. distributor or service center.

Safety information about the battery

Caution: There is a high risk of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the battery equipment manufacturer. Discard used batteries according to battery manufacturer's instructions.